

**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/736, 143 10/28/96 APPLE

WM51/1101

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EXAMINER

BLACKMAN, A

ART UNIT	PAPER NUMBER
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2672

DATE MAILED:

11/01/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 08/736,143	Applicant(s) Apple et al
Examiner Anthony Blackman	Group Art Unit 2672



Responsive to communication(s) filed on Sep 7, 2000

This action is FINAL.

Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle 1035 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

Claim(s) 1-38 is/are pending in the application
Of the above, claim(s) _____ is/are withdrawn from consideration
 Claim(s) _____ is/are allowed.
 Claim(s) 1-38 is/are rejected.
 Claim(s) _____ is/are objected to.
 Claims _____ are subject to restriction or election requirement.

Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
 The drawing(s) filed on _____ is/are objected to by the Examiner.
 The proposed drawing correction, filed on _____ is approved disapproved.
 The specification is objected to by the Examiner.
 The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
 All Some* None of the CERTIFIED copies of the priority documents have been
received.
 received in Application No. (Series Code/Serial Number) _____
 received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

Notice of References Cited, PTO-892
 Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
 Interview Summary, PTO-413
 Notice of Draftsperson's Patent Drawing Review, PTO-948
 Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

Art Unit: 2672

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DETAILED ACTION

Response to Arguments

1. This action is NON-FINAL. The examiner agrees with applicant that claims 18 and 20 overcome the previous office action. However, examiner respectfully disagrees with applicant's assertion that the remaining claims as amended are patentably distinct over the cited references regarding the following issues;
 - (a) from page 7 (at the bottom of the page, not the top of the page which is designated as 6) of paper No. 15, "There is no teaching of a database to store graphic symbols that represent entities whose financial instruments are identified by instrument identifiers in the feed." Please refer to Marshall US Patent No. 5,675,746 Id. at column 4, lines 48-67, column 5, lines 39-60, and column 12, lines 16-57 which explain the relationship between the database and associated financial data. For example, Marshall cites the knowledge and the utilization of a database of financial information, such as CAPRI which receives input real-time, financial data from on-line services such as Reuters' ...in the form of "raw" financial data and later stores financial information for later analysis.
 - (b) from page 7 of Paper No. 15, applicant feels that the motivation to combine Risberg to Marshall is in error because Marshall does not suggest association of a corporate logo with a value associated with the financial instrument. Please refer to Marshall column 6, lines 20-50, where Marshall relates a company's corporate logo textured on top of or on the side of a polygon. The

Art Unit: 2672

THIS ACTION IS NON-FINAL

polygon in turn, is associated with various financial data by manipulating various aspects of the polygon's scale, color, shape, position, animation and textures (noted specifically at column 6, lines 41-43) which may be fed from several incoming data streams (used as a source of the financial information for one virtual reality world (column 6, lines 44-45). Examiner notes texturing the logo upon the polygon is equivalent to juxtaposing the logo with real-time financial data. Applicant admits that Risberg discloses a conventional ticker display. Marshall and Risberg share the platform of analogous art, through at least their association with at least Reuters and associated financial, stock, and market data, along with streams of trade data (Risberg, column 1, lines 60-68). Additionally, Marshall discloses examples of Reuters and Knight-Ridder Inc. utilizing digital data servers (column 2, lines 55-67) as further reasoning to link Risberg et al's association with data link and financial data, and ticker display illustrated in figure 1, as well as figure 8, which illustrates the means of information extraction, storage, updating, and the rendering of the updated object.

© from page 8 of Paper No. 15, applicant submits that the motivation to combine the means of Lauer et al's wall size display is improper because there is no basis for considering that the virtual reality function of Marshall is useful with a wall size monitor as disclosed in Lauer et al. Examiner respectfully disagrees because it would have been obvious for one at the time of the invention to combine the modified device of Marshall and Risberg. Marshall discloses that "the virtual reality world is displayed using sophisticated output devices, such as high resolution color scenes..." (identified at column 1, lines 15-20) with the secondary reference of Lauer et al's modular

Art Unit: 2672

THIS ACTION IS NON-FINAL

displays/large screen displays are considered as analogous art to applicant's "video wall". Additionally, Risberg et al disclose the means of tickers showing trade data (abstract, lines 17-27). Examiner's utilization of a large screen display as analogous art to the applicant's "video wall" is merely a supplement to applicant's instant invention as a sophisticated output device. Therefore examiner maintains rejection over claim 1 because the main reference of Marshall utilizes secondary references of Risberg et al and Lauer et al to highlight information regarded as well-known in the art.

(d) from page 8 of Paper No. 15, applicant submits that claim 3, which recites that the values include the current trading price of stocks, is not suggested by the base reference of Marshall. Examiner respectfully disagrees. Marshall discloses various examples illustrating that it is well-known in the financial market place to monitor real-time incoming data using complex graphical models (column 2, lines 45-47), followed by "Financial trading groups... receive continuous streams of data via communication links information providers such as Reuters and Dow Jones" (column 2, lines 57-60). Marshall explicitly discloses utilization of "An input module (that) continuously receives a stream of financial information" (column 4, lines 29-30).

(e) from page 8 of Paper No. 15, applicant submits that claim 4, which recites that the graphic symbols include corporate logos for companies issuing stocks, is not suggested by Marshall or the combination of references. Marshall's utilization of the company logo textured (juxtaposed) upon polygons, where the polygons represent associations with various forms of financial data, clearly

Art Unit: 2672

THIS ACTION IS NON-FINAL

suggests a case for obviousness that the financial data may be utilized for the purpose of issuing stocks.

(f) from page 9 of Paper No. 15, applicant submits that claim 5, which recites that there is no suggestion of a control system that processes the display signal to produce a moving ticker display of corporate logos and values of trades and stocks, is not suggested by Marshall or the combination of references. Please refer to Response to Arguments, sections (c), and (d).

(g) from page 9 of Paper No. 15, applicant submits that claims 6-14, specifically, claim 9, recites that the display signals are fed to the individual monitors to render a different graphic symbol and associated financial data on each of the monitors. The secondary reference of Lauer et al to the modified device of Marshall discloses that "because of its internal processing capability, each module is equipped to take data and either convert it into real pixels for presenting a portion of the image to be displayed or permit routing of data to other modules." (column 3, line 61 to column 4, line 5). Furthermore, Lauer et al teach prior art of passive modular displays that paint a full image across the entire display (column 6, lines 6-47). It would be obvious to one at the time of the invention Lauer et al's utilization of modular displays overcomes the amendment of the recited claim 9.

(h) from page 9 of Paper No. 15, applicant submits that claims 15 and 16 are patentably distinct over the references because they do not describe or suggest "...graphic symbols being publicly acknowledged identifiers of entities whose financial instruments are identified by instrument identifiers

Art Unit: 2672

THIS ACTION IS NON-FINAL

in the feed.” This added limitation is merely a re-written account of a previously recited limitation that has already been overcome by the combination of references. Please refer to section (a).

(I) from page 9 of Paper No. 15, applicant has amended the claim by adding “...juxtaposed... real-time textual data” asserting, once again that the combination of references with Marshall, Risberg et al along with Lauer et al do not overcome the amended recited claim of 17. Examiner respectfully disagrees. Examiner has properly explained reasoning for motivation of the three references in sections (b) and (c). The art holds and is on point regardless of the format of the display. Well-known ticker display technology juxtaposes company/corporate symbols with financial/ stock/market data. For example, Risberg et al discloses this feature in Figure 1, element 18. Marshall, taken alone discloses the company logo textured (juxtaposed) upon (financial/stock/market) the polygon, as well as a database that is linked with the financial data including real-time textual data associated with financial instrument identifiers in the feed real-time data feed (column 5, lines 18-20, 33-36, 39-41, 48-57), clearly suggests that the real-time financial data associated with the polygon must be juxtaposed with the company logo, does not overcome the instant application, even though Marshall discloses the requirement of utilizing a sophisticated output devices (column 1, line 17) such as Risberg et al’s ticker display of Figure 1, and is further supplemented by Lauer et al’s large screen modular display. However Risberg et al, taken alone, disclosing the structure and method for a ticker display means does not meet limitations of the instant invention. Lauer et al , taken alone, disclosing a large screen display containing modules capable of displaying an entire “picture” does

Art Unit: 2672

THIS ACTION IS NON-FINAL

not meet the limitations of the instant application. Risberg et al may be combined with Marshall for at least the following reasons; changes in the stock price are reflected on the display when" (column 1, lines 59-60), the program can support data feeds from at least Reuters Market Feed 2000/IDN (column 3, lines 17-19) because Marshall and Risberg et al clearly share similar functions as analogous art that is at least related to the real-time evaluation of financial data. However, taken together, Marshall and Risberg et al fail to meet the limitations of the instant invention. The modified Marshall when combined with the large screen display of Lauer et al which is at least similar to the recited video wall display of applicant containing individual modules capable of displaying an entire picture across the entire display meets the recited claim limitations of the instant application. Therefore, it is clear to one at the time of the invention to combine the well-known large screen/modular display of Lauer et al with the ticker display means of Risberg et al and the company logo textured (juxtaposed) upon the polygon, whereas the polygon's dynamic orientation illustrates various financial/stock/market of Marshall. Finally, the real-time evaluation of financial/stock/market data is the data that is associated with the polygon. In conclusion, it is more than conceivable that Risberg et al and Lauer et al are may be combined with Marshall and their combination meets the limitations of the instant invention.

(j) The remaining issues regarding claims 19, and 21-38 have already been addressed above;

Art Unit: 2672

THIS ACTION IS NON-FINAL

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-17 and 21-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marshall(U.S. Patent No.5,675,746) in view of Risberg et al (U.S. Patent No.5,339,392) and further in view of Lauer et al (US Patent No. 5,523,769).

4. Consider claims 1-38. Marshall discloses A system for dynamically displaying graphic symbols and value information for financial instruments comprising (column 3, lines 52-63): the means of a first and second input port to receive a feed containing identifiers and corresponding values of financial instruments (column 4, lines 28-39, column 8, lines 22-37); a filter to extract from the feed the identifiers and corresponding values of the financial instruments (column 4, lines 39-47, column 8, lines 1-5, column 12, lines 16-57); an input Processor comprising a memory to store the extracted financial instrument identifiers and corresponding values (column 4, lines 48-67, column 5, lines 39-60, column 12, lines 16-57) a database/memory that stores graphic symbols and that can be accessed by financial instrument identifiers to provide graphic symbols corresponding to the financial instrument identifiers in the feed (column 4, lines 48-67, column 5, lines 39-60, column 12, lines 16-57); display signals containing metaphors/polygons and corporate logos representing

Art Unit: 2672

THIS ACTION IS NON-FINAL

variations in shapes, colors, positions, animations and textures as different characteristics of the financial data (column 6, lines 22-47), company logos being juxtaposed the real-time textual data (column 4, lines 28-41, and column 6, lines 22-47) however, does not disclose display controller, or the means of a scrolling ticker display with current financial and market information, or routing switches. Risberg et al disclose display controller (column 1, lines 59-68), the means of a scrolling ticker display with current financial and market information (Figure 3, elements 32, 34, 36, column 1, lines 59-68), the means of the routing switches (column 47, lines 47-52, column 48, lines 20-52). It would have been obvious to combine the display controlling means and scrolling ticker display means of Risberg et al with the financial information apparatus of Marshall because they share the at least similar functions of observing and evaluating financial information represented through dynamic polygons and corporate logos containing financial data. Specifically, Risberg et al teach tickers, i.e., streams of trade data for various stocks (column 1, lines 60-64). However, Risberg et al does not disclose the means of a video wall display. Lauer et al disclose the means of a video wall display with each module having it's own display device and display means (Figures 1a, 1b, 3-6, column 3, line 57 through column 5, line 22). It would have been obvious to one skilled in the art at the time of the invention to utilize the teachings of the wall size display means of Lauer et al with the teachings of the virtual reality generator for use with financial information (column 1, lines 5-7) because Lauer et al's plural display means serves as a display output device of a large screen for the signals of Marshall that utilize displays driven in real time (column 1, lines 15-35).

Art Unit: 2672

THIS ACTION IS NON-FINAL

5. Claims 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marshall (US Patent No. 5,675,746) in view of Risberg et al (US Patent No. 5,339,392) and further in view of Lauer et al (US Patent No. 5,523,769) as applied to claims 1-17 and 21-38 above, and further in view of Knee et al (US Patent No. 5,589,892).

6. Consider claims 18 and 20. The modified Marshall does not expressly teach the means of a bitmap and logo. However, Knee et al *disclose* means of a bitmap data corresponding to a (company) logo *and a database of logo bitmaps* (correspond to "...stored bitmaps for the screen configuration and the graphic symbol or logo displays stored in non-volatile memory 20 or alternatively, in DRAM 18, supplies it to a video display generator (VDG) 23..." - column 11, line 32-46, column 42, lines 45-51, column 45, line 34 to column 46, line 19). *It would have been obvious to one at the time of the invention to utilize the bitmap and logo means of Knee et al with the modified device of Marshall because they at least share similar operating functions in displaying real-time data and utilizing data feed mechanisms, in addition to the means of a business data feed (column 45, lines 35-45). Utilization of Knee et al's teaching adds a greater flexibility for the consumer as they have the ability to not only evaluate current stock issues, but they may also take advantage of the electronic television program guide system.*

Conclusion

Art Unit: 2672

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Blackman whose telephone number is (703) 305-0833. The examiner can normally be reached on Monday through Thursday from 8 a.m. to 4 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Razavi, can be reached on (703) 305-4713.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 308-6606, (for formal communications intended for entry)

Or:

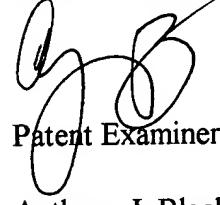
(703) 305-9731 (for informal or draft communications, please label
"PROPOSED" or "DRAFT")

Art Unit: 2672

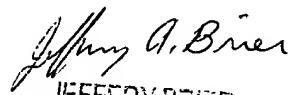
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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.


Patent Examiner
Anthony J. Blackman

10/26/2000


JEFFERY BRIER
PRIMARY EXAMINER